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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/736,462	12/15/2003	Bradley F. Chmelka	600950-1010	3479
38406	7590 03/27/2006		EXAMINER	
	MICHAEL A. O'NEIL, P.C. 949 SHERRY LANE, SUITE 820		METZMAIER, DANIEL S	
DALLAS, T	•		ART UNIT	PAPER NUMBER
,			1712	

. DATE MAILED: 03/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
0.65 4.41 0	10/736,462	CHMELKA ET AL.
Office Action Summary	Examiner	Art Unit
	Daniel S. Metzmaier	1712
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a pod will apply and will expire SIX (6) MC tute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. INTHS ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 15	December 2003.	
2a) This action is FINAL . 2b) TI	his action is non-final.	
3) Since this application is in condition for allow		-
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-56</u> is/are pending in the application	on.	
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5) Claim(s) is/are allowed.		•
6)☐ Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-56</u> are subject to restriction and/o	or election requirement.	
Application Papers		
9) The specification is objected to by the Exami	ner.	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.
Applicant may not request that any objection to the		-
Replacement drawing sheet(s) including the corre	ection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. ☐ Certified copies of the priority docume		
2. Certified copies of the priority docume		
3. Copies of the certified copies of the pr		n received in this National Stage
application from the International Bure	• • • • • • • • • • • • • • • • • • • •	
* See the attached detailed Office action for a li	si of the centried copies no	t received.
Attachment(s)		
) Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	98) 5)	
6. Patent and Trademark Office		
DL-326 (Rev. 7-05) Office	Action Summary	Part of Paper No./Mail Date 20060316

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DETAILED ACTION

Claims 1-56 are pending.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-14 and 29-42, drawn to methods of making a mesoscopically structured material and a film thereof, classified in class 516, subclass 100.
 - Claims 15-28, drawn to methods of making a lens, classified in class 359, subclass 652.
 - III. Claims 43-56, drawn to method of making an optical fiber, classified in class 359, subclass 341.1.
- 2. Inventions of Groups I, II and III are unrelated as they set forth method step requiring the further processing to form different articles of manufacture. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions the steps of forming a fiber and forming the materials into a lens are different than the formation of the structured material or the forming a film thereof.
- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

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4. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Election of species

- 5. Claims 1-56 are generic to the following disclosed patentably distinct species: the claims set forth methods of making a mesoscopically structured material having dynamic change in refractive index. Said method comprises a number of generic components, which either employ diverse components therein or require diverse properties. The following species require election to a single specie:
 - (1) Amphiphilic block copolymer that functions as a structure-directing agent.
 - (2) An Inorganic compound of a multivalent metal species.
 - (3) A material having a dipole moment.
 - (4) The variable response, e.g., refractive index.
 - (5) The predetermined stimulus.

The species are independent or distinct because each of the components and or properties are generic and the possible permutations of said combinations would require a search and examination of all materials having optical response to an optical field, a electrical field, a thermal field. Applicants should further indicate how said elected response varies for the elected stimulus. It is further requested applicants provide the support for said elected species.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Applicant is advised that a reply to this

requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner

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